

Fig. 1

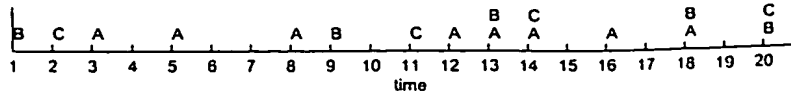


Fig. 2

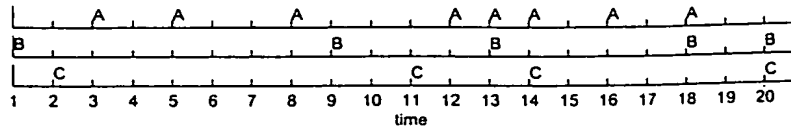


Fig. 3A

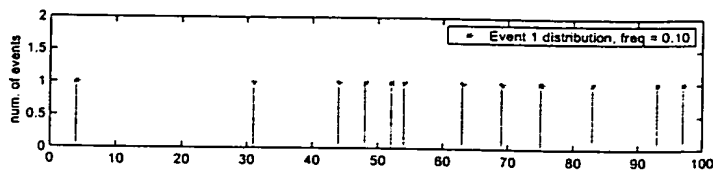


Fig. 3B

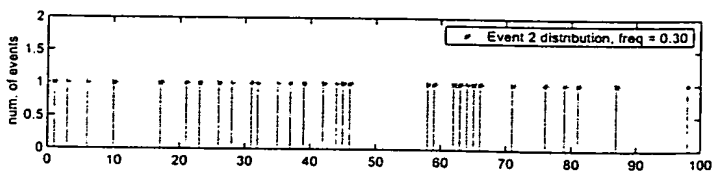


Fig. 3C

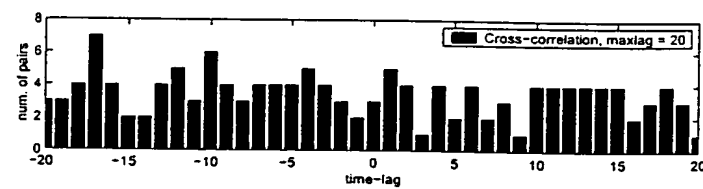


Fig. 4A

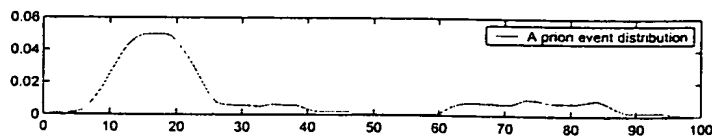


Fig. 4B

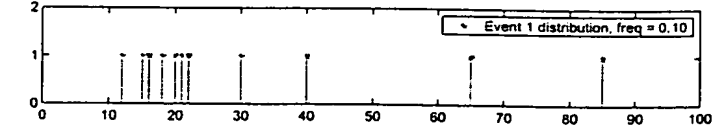


Fig. 4C

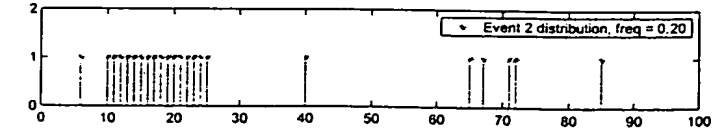
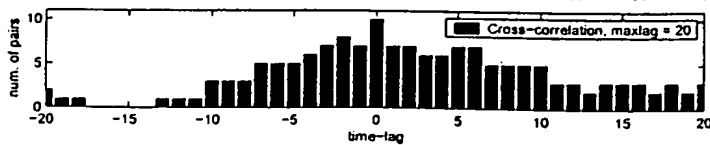


Fig. 4D



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Fig. 5A

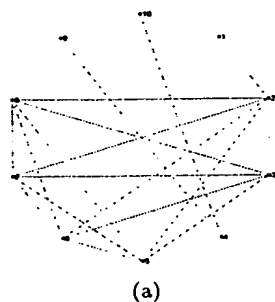


Fig. 5B

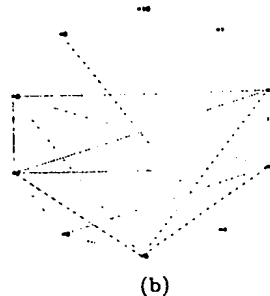


Fig. 6A1

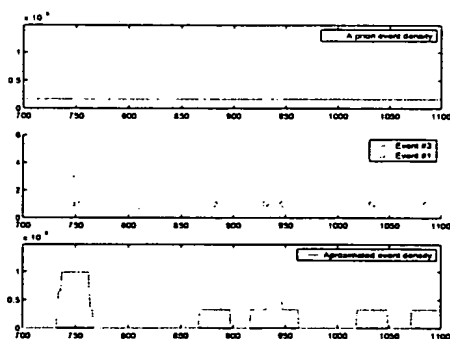


Fig. 6B1

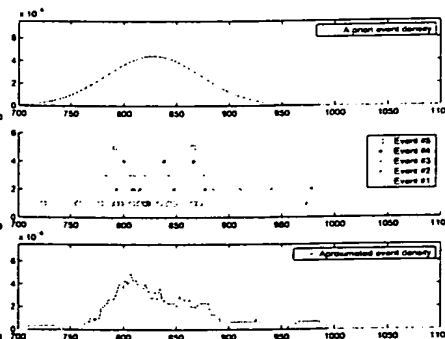


Fig. 6A2

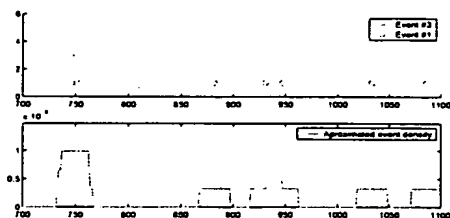


Fig. 6B2

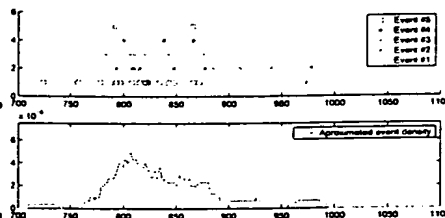


Fig. 6A3

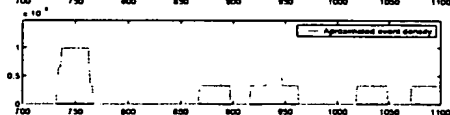


Fig. 6B3



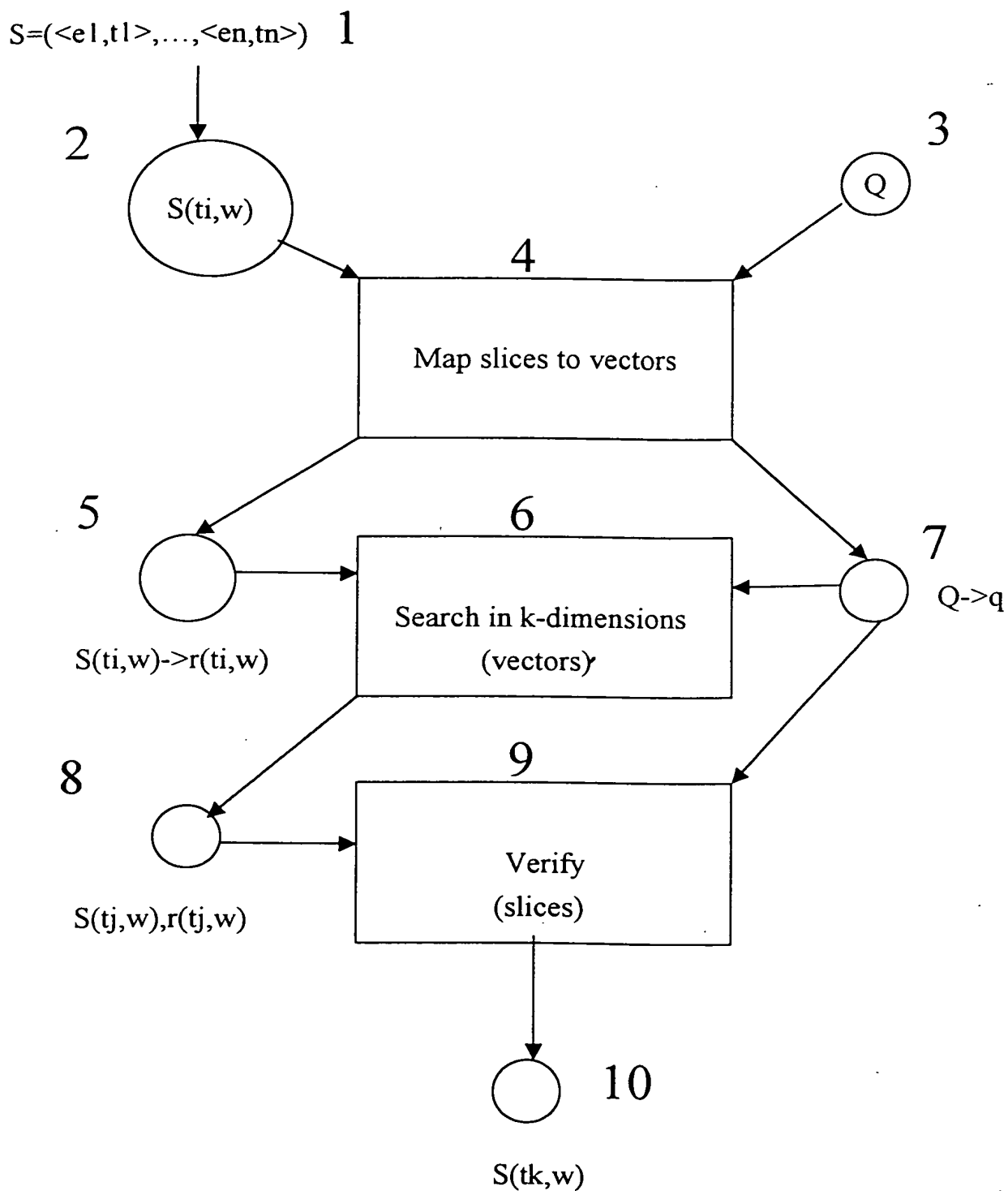


Figure 7.

Figure 8

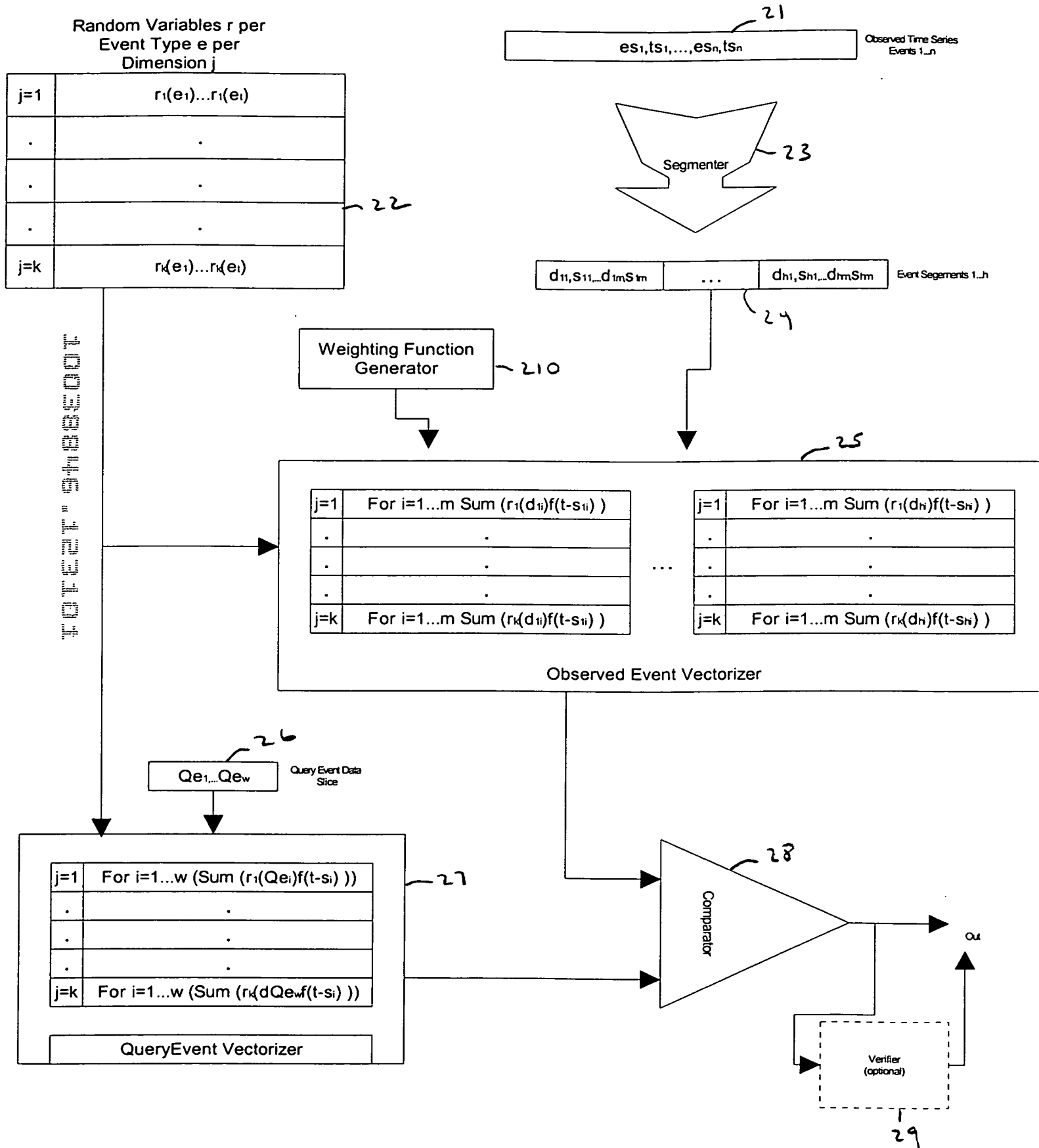


Fig. 9

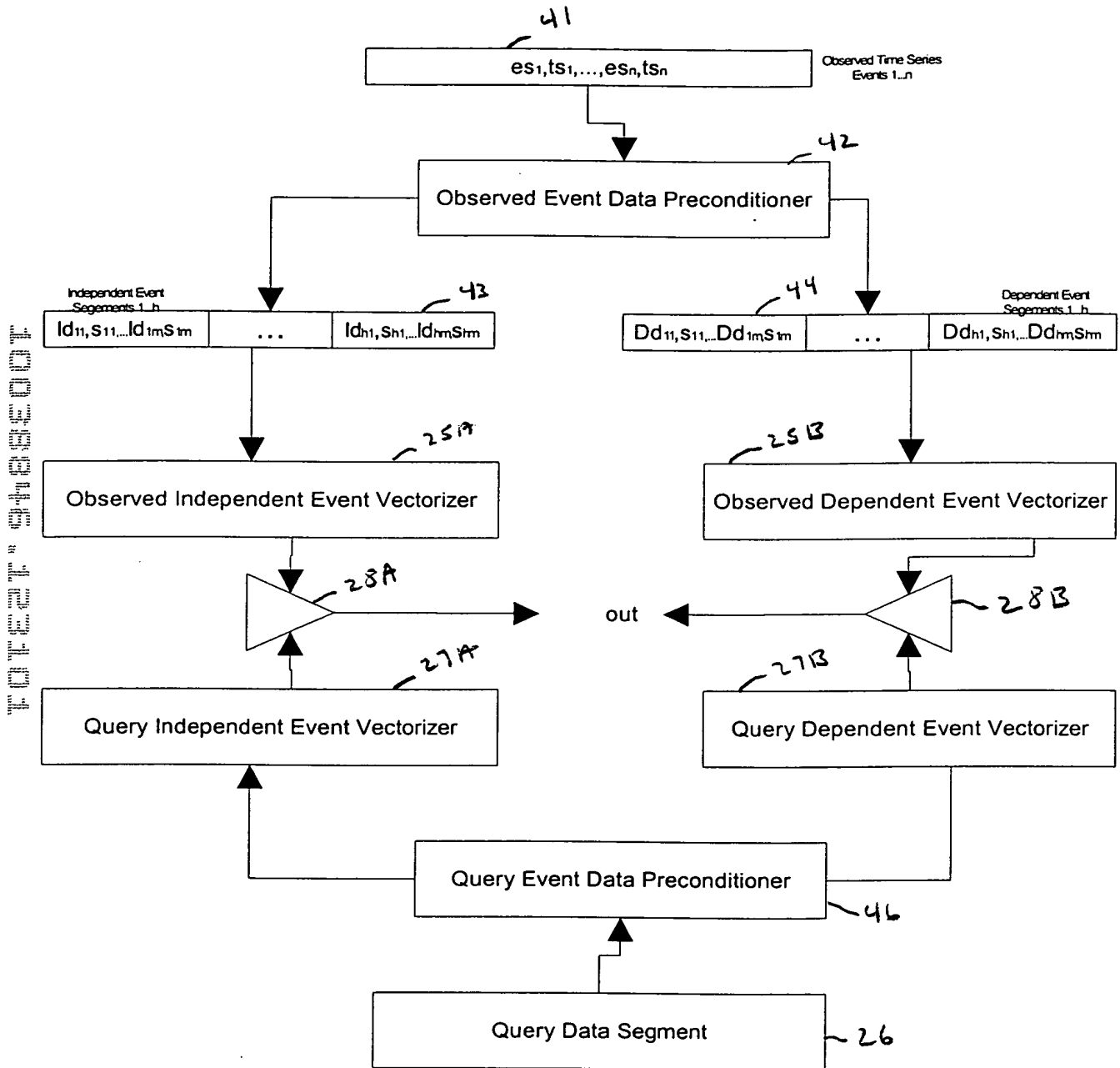


Fig. 9A

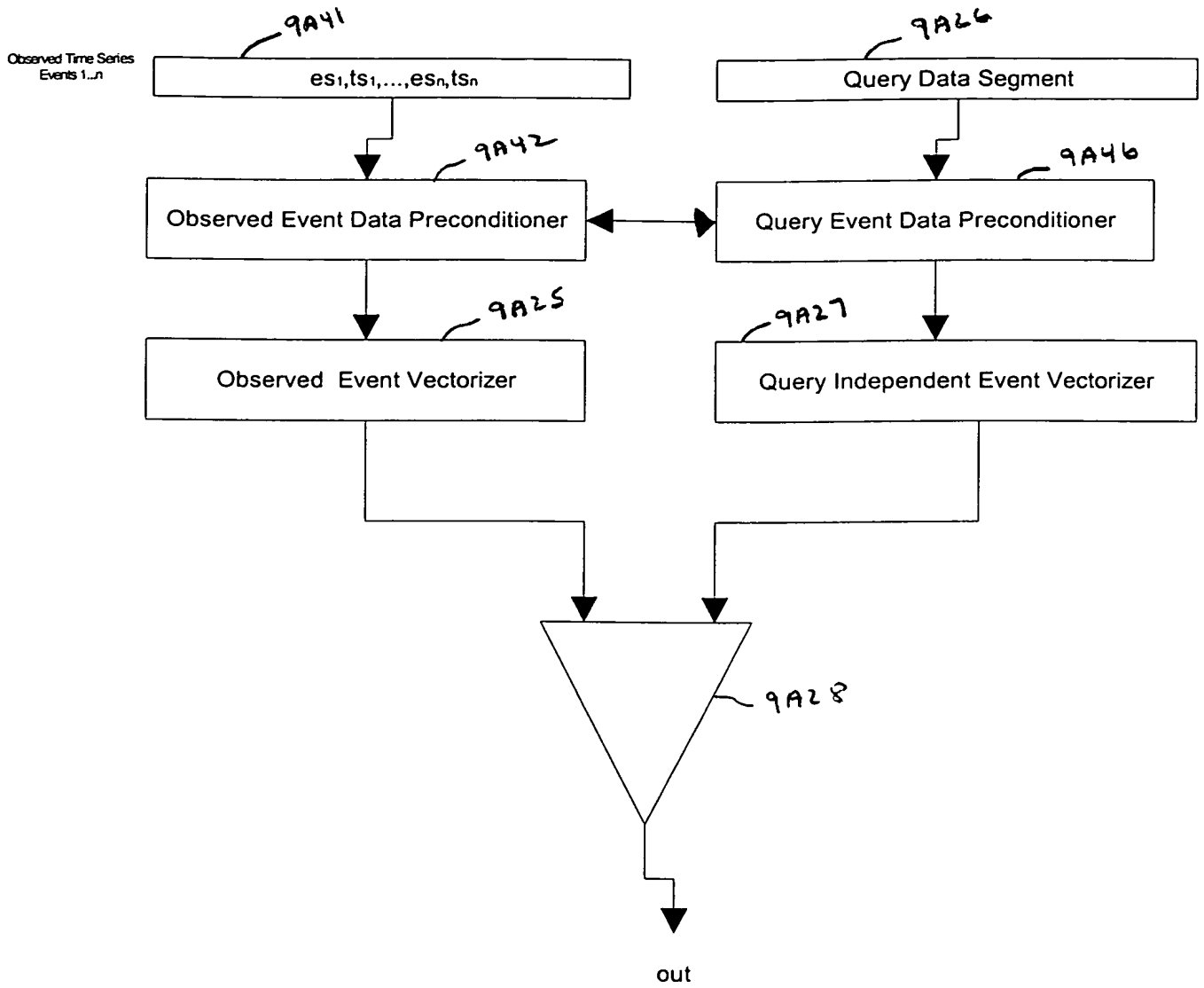
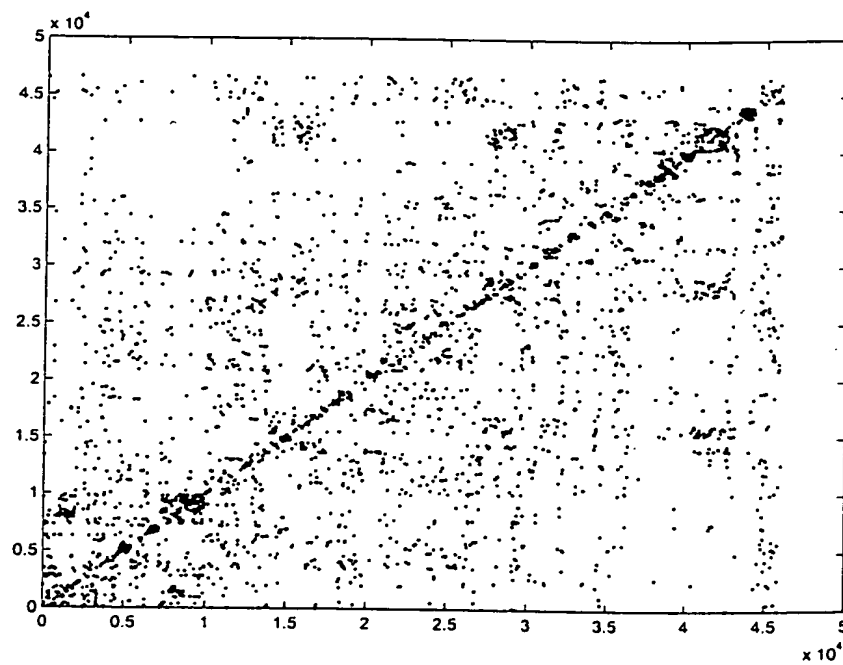


FIG. 9A

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Fig. 10



The location of the closest slice to the query slice, for every 10th event in the sequence and for  $W=1000$  sec.

Fig. 11

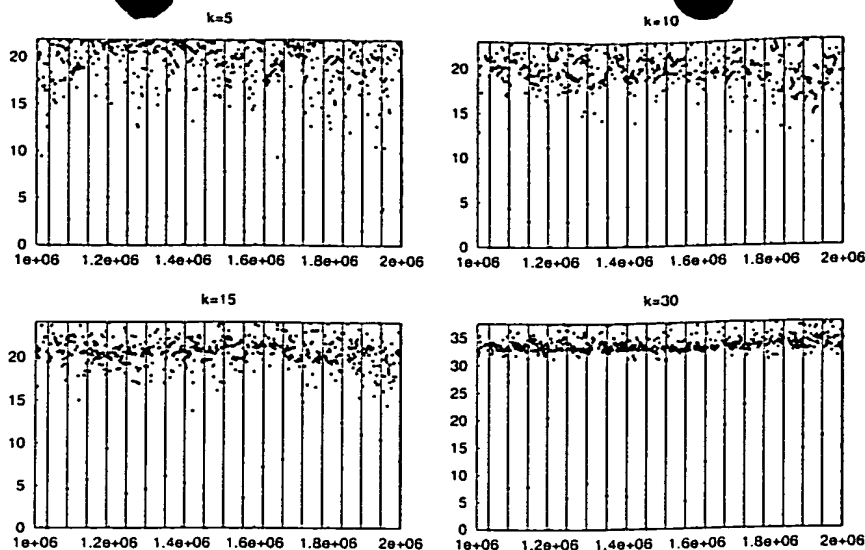
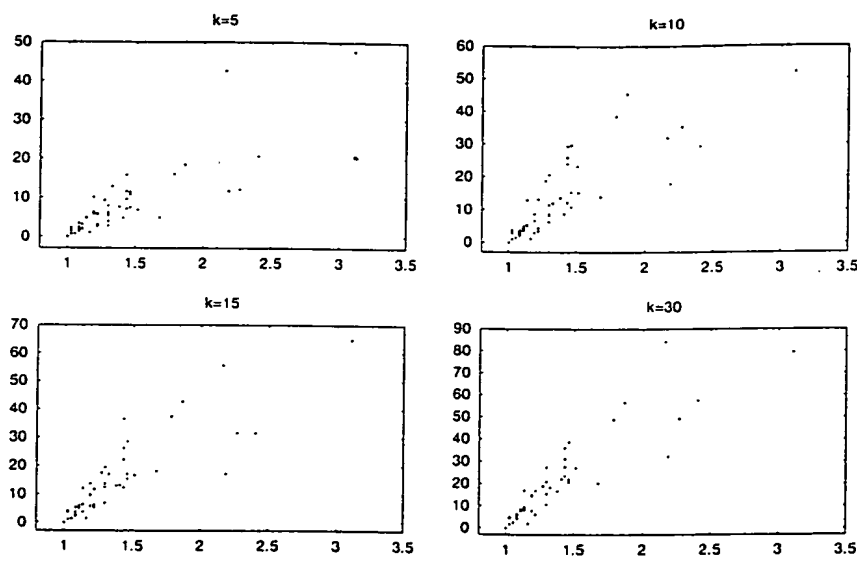


Fig. 12



*Distances of target windows against the density ratio, alarm data*

Fig. 13

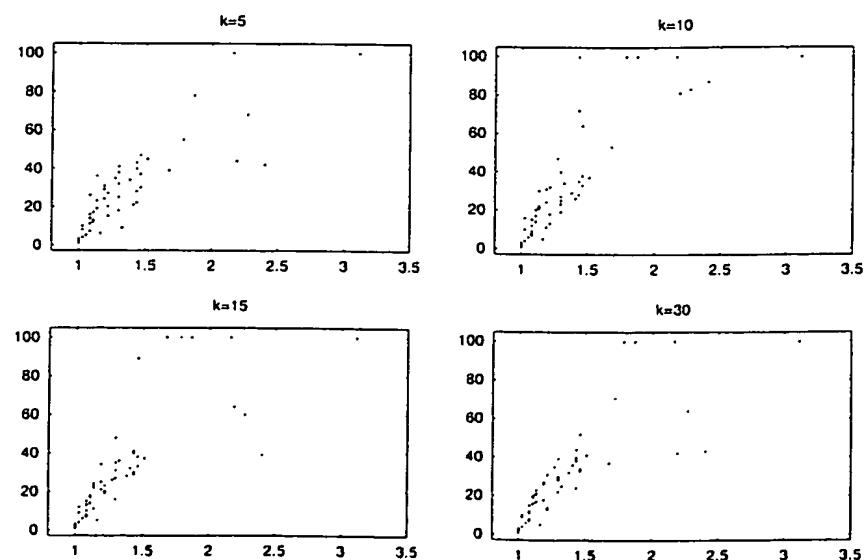




Fig. 14

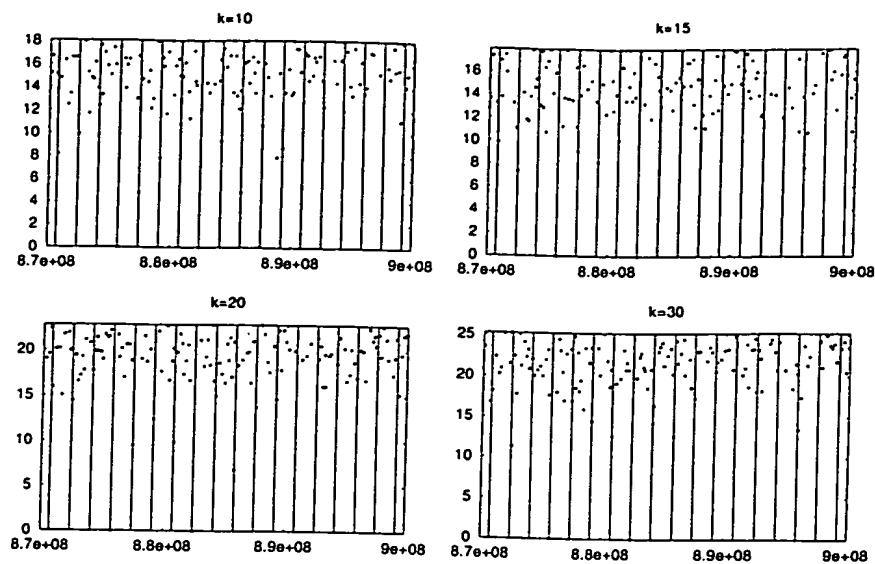


Fig. 17

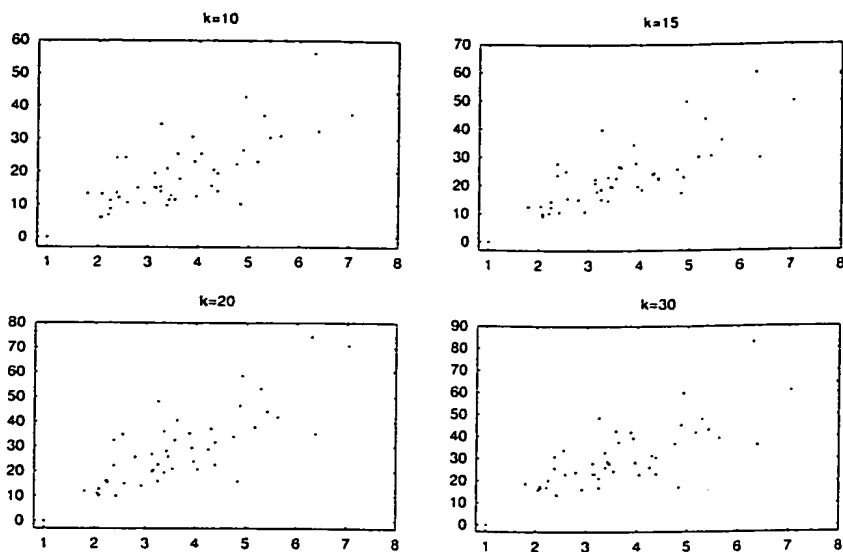
| Dist | Window  | Closest | Offset | Dist  | Window  | Closest | Offset |
|------|---------|---------|--------|-------|---------|---------|--------|
| 0.00 | 1461230 | 1461230 | exact  | 8.11  | 1675060 | 1675440 | -380   |
| 0.00 | 2157420 | 2157420 | exact  | 8.41  | 3014113 | 3014260 | -147   |
| 0.00 | 1032800 | 1032800 | exact  | 8.57  | 2799882 | 2800050 | -168   |
| 1.02 | 2210970 | 2210970 | exact  | 8.58  | 979102  | 979249  | -147   |
| 1.26 | 497272  | 497272  | exact  | 9.32  | 1193557 | 1193460 | 97     |
| 1.32 | 711484  | 711484  | exact  | 10.18 | 818800  | 818590  | 210    |
| 2.10 | 872143  | 872143  | exact  | 10.26 | 2639124 | 2639390 | -266   |
| 2.59 | 3067820 | 3067820 | exact  | 10.42 | 1942820 | 1943200 | -380   |
| 3.55 | 1568330 | 1568330 | exact  | 10.49 | 2853333 | 2853600 | -267   |
| 3.61 | 2425180 | 2425180 | exact  | 11.02 | 2478783 | 2478730 | 53     |
| 3.68 | 604378  | 604378  | exact  | 11.02 | 1889383 | 1889650 | -267   |
| 4.00 | 657931  | 657931  | exact  | 11.33 | 2103614 | 2103860 | -246   |
| 4.04 | 1247010 | 1247010 | exact  | 12.17 | 2692793 | 2692940 | -147   |
| 4.55 | 1300570 | 1300570 | exact  | 12.41 | 1835763 | 1836100 | -337   |
| 4.57 | 925696  | 925696  | exact  | 12.91 | 2906893 | 2907160 | -267   |
| 4.57 | 3121370 | 3121370 | exact  | 13.14 | 2264140 | 2264520 | -380   |
| 4.58 | 1086360 | 1086360 | exact  | 13.75 | 3059438 |         | missed |
| 4.79 | 2532290 | 2532290 | exact  | 13.77 | 1428734 |         | missed |
| 5.27 | 1407670 | 1407670 | exact  | 14.08 | 2959387 |         | missed |
| 5.64 | 2371432 | 2371630 | -198   | 14.17 | 755127  |         | missed |
| 5.70 | 1139910 | 1139910 | exact  | 14.43 | 1961635 |         | missed |
| 5.82 | 2585840 | 2585840 | exact  | 14.59 | 2053796 |         | missed |
| 6.13 | 1354120 | 1354120 | exact  | 14.88 | 1729345 | 1728990 | 355    |
| 7.17 | 1621733 | 1621880 | -147   | 15.01 | 1116290 |         | missed |
| 7.95 | 1996493 | 1996760 | -267   | 15.26 | 2087183 |         | missed |

Dist=Distance to query window  
Window=Position (time) of window found  
Closest=Position of closest target window, if closer than 1000  
Offset=Difference of this window and closest target

*Distances of fifty closest selected windows, k = 15, alarm data*

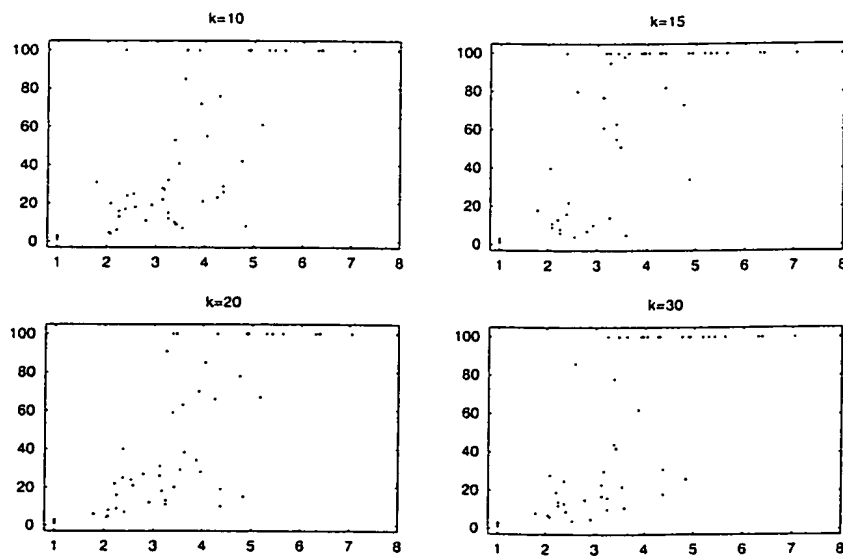
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Fig. 15



*Distances of target windows against density ratio, Entree Chicago data*

Fig. 16



*Ranks of target windows against the density ratio, Entree Chicago data*

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